MAR 2 2.2004

PTO/SB/21 (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
The Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

10 + 36

Refs

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number 10/646,948 Filing Date August 21, 2003 First Named Inventor Krisztina M. ZSEBO Art Unit Not Yet Assigned Examiner Name Not Yet Assigned Attorney Docket Number 220002064500

ENCLOSURES (Check all that apply)						
Fee Transmittal Form		Drawing(s)	After Allowance Communication to Group			
Fee Attached		Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences			
Amendmer	nt/Reply	Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)			
After	Final	Petition to Convert to a Provisional Application	Proprietary Information			
Affida	avits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter			
Extension	of Time Request	Terminal Disclaimer	X Other Enclosure(s) (please identify below):			
Express At	oandonment Request	Request for Refund	Form PTO-1449 (3 pages in duplicate)			
x Information Disclosure Statement (3 pages)		CD, Number of CD(s)	References (36) Return receipt postcard			
Certified Co	opy of Priority					
Response	to Missing Parts/ Application	Remarks				
Response to Missing Parts						
Ll under 37 CFR 1.52 or 1.53						
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT						
Firm or Individual name	MORRISON & FOE Shantanu Basu - 43		(Customer No. 25226)			
Signature	Sheurteur	Base				
Date	March 16, 2004					

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in
an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.
wat: Paul

Dated: March 16, 2004

Signature: // / / / (Martina Placid)



CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 16, 2004.

Martina Wac

Martina Placid

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Krisztina M. ZSEBO et al.

Serial No.:

10/646,948

Filing Date:

August 21, 2003

For:

METHOD OF GENERATING AN

IMMUNE RESPONSE AND

COMPOSITIONS USED FOR SAME

Examiner: Not Yet Assigned

Group Art Unit: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Pursuant to the USPTO notice dated July 11, 2003, waiving the requirement under 37 C.F.R. § 1.98 (a)(2)(i) to provide copies of U.S. Patents and U.S. Published Applications, copies of those references are

not submitted. Copies of foreign documents and non-patent literature are submitted herewith.

The Examiner is requested to make these documents of record.

	This I	nformation Disclosure Statement is submitted:
	With t	the application; accordingly, no fee or separate requirements are required.
	Before	e the mailing of a first Office Action after the filing of a Request for Continued
	Exam	ination under § 1.114. However, if applicable, a certification under 37 C.F.R. §
	1.97(e	e)(1) has been provided.
\boxtimes	Within	n three months of the application filing date or before mailing of a first Office
	Action	on the merits; accordingly, no fee or separate requirements are required.
	Howe	ver, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.
	After	receipt of a first Office Action on the merits but before mailing of a final Office
	Action	or Notice of Allowance.
		A fee is required. A check in the amount of is enclosed.
		A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached
		to this submission in duplicate.
		A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee
		is believed to be due.
	After	mailing of a final Office Action or Notice of Allowance, but before payment of the
	issue f	fee.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the
		amount of is enclosed.
		A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal
		form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does

not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 220002064500. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: March 16, 2004

Respectfully submitted,

Shantanu Basu

Registration No. 43,318

Morrison & Foerster LLP 755 Page Mill Road

Palo Alto, California 94304-1018

Telephone: (650) 813-5995 Facsimile: (650) 494-0792

•								PTO/SB/08 (2-92) Sheet 1 of 3
Form PTC)-1449				Docket Number 2200	Docket Number 220002064500 Application Number 10/646,9		mber 10/646,948
OTHER	\ TA.T	ON DISCLO	SURE CITATION CATION	ſ	Applicant Krisztina M. ZSEBO et al.			
	<i>S</i> 3/	se several sheets if			Filing Date August 21, 2003 Group Art Unit Not Yet As		Not Yet Assigned	
MAR 2 2 200	भ मु				Mailing Date March 16, 2004			
RADEMA	W Car		U.S. PA	TEN	T DOCUMENT	S		
Examiner Initials	Ref. No.	Date	Document No.		Name	Class	Subclass	Filing Date If Appropriate
	1.	04/05/1977	4,016,253	Sw	itzer et al.			
	2.	03/13/1984	4,436,728	Rib	oi et al.			
	3.	02/23/1988	4,726,947	Shi	mada et al.			
	4.	10/15/1991	5,057,540	Keı	nsil et al.			
	5.	12/31/1991	5,077,284	Lor	ria et al.			
	6.	12/15/1992	5,171,568	Bu	rke et al.	'		
	7.	04/18/1995	5,407,684	Lo	ria et al.			
			Γ	PAT	ENT DOCUME			
Evaminar	Dof	Doto	Dogument No	1	Country	Class	Lubelace	l Translation

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	8.	11/17/1991	WO 91/16924	WIPO			
	9.	10/01/1992	WO 92/16231	WIPO	•		
	10.	08/10/2000	WO 00/45840	WIPO			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

	OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.)
Ref. No.	Title
11.	Anderson, P. et al. (1977). "Immunogenicity in Weanling Rabbits of a Polyribophosphate Complex from <i>Haemophilus influenzae</i> Type b," <i>J. Inf. Dis.</i> 136(S):S63-S70.
12.	Azougagh-Oualane, F. et al. (1992). "Effects of Aprotinin on Heparin Activities and Heparin Neutralization with Protamine," <i>Thromb. Res.</i> 68(2):185-193.
13.	Bizzini, B. (1984). "Tetanus" Chapter 2 In <u>Bacterial Vaccines</u> Germanier, R. ed., Academic Press, Inc.: Orlando, FL. pp. 37-68.
14.	Brown, H.M. et al. (1959). "Chronic Bronchitis in Industry," Br. Med. J. 1:263-267.
15.	Cole, TC. et al. (1989). "Isolation and Characterisation of a Neutral Proteinase From the Canine Intervertebral Disc," <i>Biochim. Biophys. Acta.</i> 990:254-262.
16.	DiPetrillo, M.D. et al. (2000). "Safety and Immunogenicity of phoP/phoQ-deleted Salmonella typhi expressing Helicobacter pylori Urease in Adult Volunteers," Vaccine 18:449-459.
	No. 11. 12. 13. 14. 15.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449		Docket Number 220002064500	Application Number 10/646,948		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION		Applicant Krisztina M. ZSEBO et al.			
(Use several sheets if necessary)	Filing Date August 21, 2003	Group Art Unit Not Yet Assigned		
		Mailing Date March 16, 2004			
17.	Eisenstein, T.K. et al. (1998). "Immune Parenteral Live Salmonella Vaccines I Mutant Does Not Suppress But Does F	Oo Not Correlate with Protective			
18.	Eisenstein, T.K. (1999). "Mucosal Imn In Intracellular Bacterial Vaccine Vect	nune Defense: The Salmonella toors, Paterson, Y. ed. Wiley-Liss	yphimurium Model" Chapter 3, Inc. pp. 51-109.		
19.	Fine, P.E.M. et al. (1987). "Reflections 9(5):866-883.	s on the Efficacy of Pertussis Va	ccines," Rev. Infect. Dis.		
20.	Gentschev, I. et al. (2002). "The E. col Development," Trends in Microbiolog		and Its Use in Vaccine		
21.	Ghosh, D. et al. (2002). "Paneth Cell T Nature Immunology 3(6):583-590.	Trypsin is the Processing Enzym	e for Human Defensin-5,"		
22.	Hone, D.M. et al. (1999)."Mucosal Va Intracellular Bacterial Vaccine Vectors				
23.	Hornick, R.B. et al. (1970). "Typhoid Fever: Pathogenesis and Immunologic Control," N. Eng. J. Med. 283(13):686-691.				
24.	Laura, R. et al. (1980). "(p-Amidinophenyl)methanesulfonyl Fluoride, an Irreversible Inhibitor of Serine Proteases," <i>Biochemistry</i> 19:4859-4864.				
25.	Linhardt, R.J. et al. (1995). "Dermatan Sulfate as a Potential Therapeutic Agent," Gen. Pharmacol. 26(3):443-451.				
26.	Mäkelä, P.H. et al. (1977). "Polysaccharide Vaccines of Group A Neisseria meningitidis and Haemophilus influenzae Type b: A Field Trial in Finland," J. Inf. Dis. 136(S):S43-S50.				
27.	Manclark, C.R. et al. (1984). "Pertussis" Chapter 3 In <u>Bacterial Vaccines</u> Germanier, R. ed., Academic Press: Orlando, FL. pp. 69-106.				
28.	Panyutich, A. et al. (1991). "Activated α ₂ -Macroglobulin Is a Principal Defensin-Binding Protein," Am. J. Respir. Cell Mol. Biol. 5:101-106.				
29.	Panyutich, A.V. et al. (1995). "Human Neutrophil Defensin and Serpins Form Complexes and Inactivate Each Other," <i>Am. J. Respir. Cell Mol. Biol.</i> 12:351-357.				
30.	Pappenheimer, A. M. (1984). "Diphtheria" Chapter 1 In <u>Bacterial Vaccines</u> Germanier, R. ed., Academic Press: Orlando, FL. pp. 1-36.				
31.	Parke, J.C. et al. (1977). "Interim Report of a Controlled Field Trial of Immunization with Capsular Polysaccharides of <i>Haemophilus influenzae</i> Type b and Group C <i>Neisseria meningitides</i> in Mecklenburg County, North Carolina (March 1974-March 1976)," <i>J. Inf. Dis.</i> 136(S):S51-S56.				
32.	Pltokin, S.A. et al. eds. (1999). <u>Vaccines</u> Third Edition WB Saunders Co.: Philadelphia, PA pp xvii-xix (Table of Contents Only.)				
EXAMINER:		DATE CONSIDERED:			
	tial if citation considered, whether or not the citation not considered. Include a copy of this form with n		ine through the citation if not in		

Form PTO-1449)	Docket Number 220002064500	Application Number 10/646,948				
INFORMATION DISCLOSURE CITATION		Applicant					
	N AN APPLICATION	Krisztina M. ZSEBO et al.					
(Use several sheets if necessary)	Filing Date August 21, 2003	Group Art Unit Not Yet Assigned				
		Mailing Date March 16, 2004					
33.		natan Sulphate is Released by Proteinases of Common Antibacterial α-defensin," <i>Mol. Microbiol.</i> 39(3):708-713.					
34.	Shata, M.T. et al. (2000). "Recent Ad Molecular Medicine Today 6:66-71.	vances with Recombinant Bact	erial Vaccine Vectors,"				
35.	Sirard, J-C. et al. (1999). "Live Attendary. 171:5-26.	uated Salmonella: A Paradigm	of Mucosal Vaccines," Immun.				
36.	Sweadner, K.J. (1991). "Trypsin Inhil Dodecyl Sulfate, Facilitating Proteoly						
37.	Takahashi, H. et al. (1990). "Induction HIV-1 Envelope Protein in ISCOMs,"		y Immunization with Purified				
38.		Tzschaschel, B.D. et al. (1996). "An <i>Escherichia coli</i> Hemolysin Transport System-Based Vector for the Export of Polypeptides: Export of Shiga-like Toxin IIeB Subunit by <i>Salmonella typhimurium</i>					
39.		Uchino, T. et al. (1993). "Isolation and Characterization of a Novel Serine Proteinase Complexed with α ₂ -Macroglobulin From Porcine Gastric Mucosa," <i>J. Biol. Chem.</i> 268(1):527-533.					
40.	Valore, E.V. et al. (1996). "Intramole Clin. Invest. 97(7):1624-1629.	Valore, E.V. et al. (1996). "Intramolecular Inhibition of Human Defensin HNP-1 by Its Propiece," J.					
41.	Wilson, C.L. et al. (1999). "Regulatio Matrilysin in Innate Host Defense," S		vation by the Metalloproteinase				
42.	Xiang, R. et al. (2001). "Protective In Induced by an Oral DNA Vaccine in 864S.						
43.	Zasloff, M. (2002). "Trypsin, for the	defense," Nature Immunology	3(6):508-510.				
EXAMINER:		DATE CONSIDERED:					
EXAMINER: Ini	tial if citation considered, whether or not the citat	tion conforms with MPEP 609. Draw	a line through the citation if not in				

conformance and not considered. Include a copy of this form with next communication to applicant.